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CLAIMS

- 1. An insecticide delivery system comprising an effective amount of a non-lethal knockout agent selected from the group consisting of cis-1, 2-dichloroethylene or trans-1, 2-dichloroethylene and an effective amount of an insecticide.
- 2. The insecticide delivery system of claim 1 wherein the knockout agent is transdichloroethylene.
- 3. The insecticide delivery system of claim 1 wherein a diluent is provided, which diluent is one in which the knockout agent, the insecticide, or both, are at least partially soluble or at least partially miscible.
- 4. The insecticide delivery system of claim 3 wherein the diluent is selected from the group consisting of: a) biodegradable oils; b) alcohols; c) ketones and ketoalcohols; d) ethers; e) esters; f) polyhydric alcohols; g) lower alkyl mono- and di-ethers derived from alkylene glycols.
- 5. The insecticide delivery system of claim 4 wherein the diluent is selected from the group consisting of biodegradable oils, alcohols, and water.
- 6. The insecticide delivery system of claim 5 wherein the diluent is water.
- 10. The insecticide delivery system of claim 1 wherein the insecticide is selected from the group consisting of: a) organochlorines, b) organophosphates, c) organosulfurs, d) carbamates, e) dinitrophenols, f) organotins, g) pyrethroids, h) nicothinoids, i) spinosyns, j) fiproles, k) pyrroles, l) pyrazoles, m) phridazinones, n) quinazolines, o) benzoylureas, p) botanicals, q) synegists, r) antibiotics, s) fumigants, t) fluorides, and u) derivatives of pyrethrins.
- 11. The insecticide delivery system of claim 10 wherein the insecticide is a botanical.
- 12. The insecticide delivery system of claim 11 wherein the botanical is selected from the group consisting of pyrethum, nicotine, rotenone, turpentine and d-limonene.

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- 13. The insecticide delivery system of claim 12 wherein the botanical is d-limonene.
- 14. The insecticide delivery system of claim 2 wherein the insecticide is d-limonene.
- 15. The insecticide delivery system of claim 1 that also includes one or more propellants.
- 16. The insecticide delivery system of claim 15 wherein the propellant is a non-flammable propellant.
- 17. The insecticide delivery system of claim 16 wherein the non-flammable propellant is a tetrafluoroethane.
- 18. The insecticide delivery system of claim 1 which also includes an emulsifier.
- 19. The insecticide delivery system of claim 18 wherein the emulsifier is selected from the group consisting of mono-, di- and tri-sorbitan esters; polyoxethylene sorbitan esters; ethoxylated nonionic emulsifiers; propoxylated nonionic emulsifiers and ethyoxylated/propoxylated nonionic emulsifiers.